

IP



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Huw M. Nash, et al.

Art Unit : Unknown

Serial No. : 10/806,758

Examiner : Unknown

Filed : March 22, 2004

Title : METHOD OF SCREENING FOR TARGET LIGANDS

MAIL STOP AMENDMENT

Commissioner for Patents

P.O. Box 1450

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INFORMATION DISCLOSURE STATEMENT

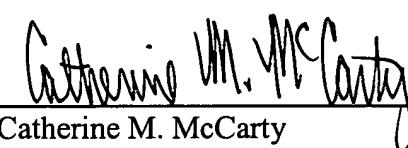
Applicants submit the references listed on the attached form PTO-1449.

Applicants also submit two (2) letters dated July 29, 2004 and October 21, 2004 from uncooperative inventor Daniel L. Flynn, Ph.D.

This statement is being filed before the receipt of a first Office action on the merits.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: December 30, 2004


 Catherine M. McCarty
 Reg. No. 54,301

 Fish & Richardson P.C.
 225 Franklin Street
 Boston, MA 02110-2804
 Telephone: (617) 542-5070
 Facsimile: (617) 542-8906

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Substitute Form PTO-1449 (Amended) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.56(b))		U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10845-044001	Application No. 10/806,758
		Applicant Huw M. Nash, et al.		
		Filing Date March 22, 2004	Group Art Unit	

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AQ	Ablooglu, Ararat J., et al., "Multiple Activation Loop Conformation and Their Regulatory Properties in the Insulin Receptor's Kinase Domain, <i>The Journal of Biological Chemistry</i> (2001).
	AR	Burk, David L., et al., "Protein Kinase Inhibitors and Antibiotic Resistance," <i>Pharmacology & Therapeutics</i> (2002).
	AS	Capdeville, Renaud, et al., "Glivec (ST1571, IMATINIB) a Rationally Developed, Targeted Anticancer Drug," <i>Nature Reviews Molecular Cell Biology</i> (2002).
	AT	Cavalli, Andrea, et al., "Three-Dimensional Model of the Cyclin-Dependent Kinase 1 (CDK1): Ab Initio Active Site Parameters for Molecular Dynamics Studies of CDKs," <i>Protein: Structure, Function, Genetics</i> (2001).

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<small>CFR §1.98</small>			

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document	
	AU	Chakravarty, Sarvajit, et al., "Chapter 18. Inhibitor of p38 α MAP Kinase," <i>Annual Reports in Medicinal Chemistry</i> (2002).	
	AV	Cockerill, G. Stuart, et al., "Small Molecule Inhibitors of the Class 1 Receptor Tyrosine Kinase Family," <i>Bentham Science Publishers Ltd.</i> (2002).	
	AW	Collin, Olivier, et al., "KID, a Kinase Inhibitor Database Project," <i>Pharmacology & Therapeutics</i> (1999).	
	AX	Davies, Thomas G., et al., "Structure-Based Design of Cyclin-Dependent Kinase Inhibitors," <i>Pharmacology & Therapeutics</i> (2002).	
	AY	Denny, William A., "Irreversible Inhibitors of the erbB Family of protein Tyrosine Kinases," <i>Pharmacology & Therapeutics</i> (2002).	
	AZ	Dostmann, Wolfgang R.G., et al., "Exploring the Mechanisms of Vascular Smooth Muscle Tone with Highly Specific, Membrane-Permeable Inhibitors of Cyclic GMP-Dependent Protein Kinase I α ," <i>Pharmacology & Therapeutics</i> (2002).	
	AAA	Dumas, Jacques, et al., "Synthesis and Pharmacological Characterization of a Potent Orally Active p38 Kinase Inhibitor," <i>Bioorganic & Medicinal Chemistry Letters</i> (2002).	
	ABB	Engh, Richard A., et al., "Structural Aspects of Protein Kinase Control-Role of Conformational Flexibility," <i>Pharmacology & Therapeutics</i> (2002).	
	ACC	Fabbro, Doriano, et al., "Protein Kinases as Targets for Anticancer Agents: From Inhibitors to Useful Drugs," <i>Pharmacology & Therapeutics</i> (2002).	
	ADD	Frankel, Mark, et al., "Intrasteric Inhibition of ATP Binding is not Required to Prevent Unregulated Autophosphorylation or Signaling by the Insulin Receptor," <i>Molecular and Cellular Biology</i> (2001).	
	AEE	Frantz, Simon, "Kinase Inhibitors: Pocket Review," <i>Nature Reviews Molecular Cell Biology</i> (2002).	
	AFF	Fukami, Yasuo, et al., "Inhibition and Activation of c-Src: The Head and Tail of a Coin," <i>Pharmacology & Therapeutics</i> (2002).	
	AGG	Fukami, Yasuo, et al., "Peptide Inhibitors of the Mitogen-Activated Protein Kinase Pathway: A Structure-Mimetic Peptide Corresponding to the Conserved Inter-DFG-APE Region in the Kinase Domain," <i>Pharmacology & Therapeutics</i> (1999).	
	AHH	Gould, Christine, et al., "Designing Specific Protein Kinase Inhibitors: Insights from Computer Simulations and Comparative Sequence/Structure Analysis," <i>Pharmacology & Therapeutics</i> (2002).	
	AII	Haesslein, Jean-luc, et al., "Recent Advances in Cyclin-Dependent Kinase Inhibition. Purine-Based Derivatives as Anti-Cancer Agents. Roles and Perspective for the Future," <i>Current Topics in Medicinal Chemistry</i> (2002).	
	AJJ	Hubbard, Steven R., "Protein Tyrosine Kinases: Autoregulation and Small-Molecule Inhibition," <i>Current Opinion in Structural Biology</i> (2002).	
	AKK	Hubbard, Steven R., et al. "Crystal Structure of the Tyrosine Kinase Domain of the Human Insulin Receptor," <i>Nature</i> (1994).	
	ALL	Irie, Kazuhiro, et al., "Establishment of a Binding Assay for Protein Kinase C Isozymes Using Synthetic C1 Peptides and Development of New Medicinal Leads with protein Kinase C Isozyme and C1 domain Selectivity," <i>Pharmacology & Therapeutics</i> (2002).	
	AMM	Johnson, Louise N., et al., "Structural Studies with Inhibitors of the Cell Cycle Regulatory Kinase Cyclin-Dependent Protein Kinase 2," <i>Pharmacology & Therapeutics</i> (2002).	
	ANN	Kobe, Bostjan, et al., "Active site-Directed Protein Regulation," <i>Nature</i> (1999).	

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37 CFR §1.98				

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	AOO	Lawrence, David S., et al., "Protein Kinase Inhibitors: The Tyrosine-Specific Protein Kinase," <i>Pharmacology & Therapeutics</i> (1998).
	APP	Lowinger, Timothy B., et al., "Design and Discovery of Small Molecules Targeting Raf-1 Kinase," <i>Current Pharmaceutical Design</i> (2002).
	AQQ	Marti-Renom, Marc A., et al., "Reliability of Assessment of Protein Structure Prediction Methods," <i>Elsevier Science Ltd.</i> (2002).
	ARR	Munshi, Sanjeev, et al., "Crystal Structure of the Apo, Unactivated Insulin-like Growth Factor-1 Receptor Kinase," <i>The Journal of Biological Chemistry</i> (2002).
	ASS	Nagar, Bhusham, et al. "Crystal Structures of the Kinase Domain of c-Abl in Complex the Small Molecule Inhibitors PD173955 and Imatinib (STI-571)," <i>Cancer Research</i> (2002).
	ATT	Noble, Martine E. M., et al., "Chemical Inhibitors of Cyclin-Dependent Kinases; Insights into Design from X-Ray Crystallographic Studies," <i>Pharmacology & Therapeutics</i> (1999).
	AUU	O'Hare, Michael, et al., "Cyclin-Depended Kinases as a Potential Targets to Improve Stroke Outcome," <i>Pharmacology & Therapeutics</i> (2002).
	AVV	Parang, Keykavous, et al., "Designing Bisubstrate Analog Inhibitors for Protein Kinases," <i>Pharmacology & Therapeutics</i> (2002).
	AWW	Pargellis, Christopher, et al., "Inhibition of p38 MAP Kinase by Utilizing a Novel Allosteric Binding Site," <i>Nature Structural Biology</i> (2002).
	AXX	Regan, John, et al., "Pyrazole Urea-Based Inhibitors of p38 MAP Kinase: From Lead Compound to Clinical Candidate," <i>J. Med. Chem.</i> (2002).
	AYY	Sarno, Stefania, et al., "Toward the Rational Design of Protein Kinase Casein Kinase-2 Inhibitors," <i>Pharmacology & Therapeutics</i> (2002).
	AZZ	Sasaki, Yasuharu, et al., "The Novel and Specific Rho-Kinase Inhibitor (S)-(+)2methyl-1-[(4-methyl-5-isoquinoline)sulfonyl]homopiperazine as a probing moledulae for Rho-kinase-involved pathway," <i>Pharmacology & Therapeutics</i> (2002).
	AAAA	Sausville, Edward A., et al., "Cyclin-Dependenr Kinases: Initial Approached to Exploit a Novel Therapeutic Target," <i>Pharmacol. Ther.</i> (2002).
	ABBB	Scapin, Giovanna, "Structural Biology in Drug Design: Selective Protein Kinase Inhibitors," <i>Drug Discovery Today</i> (2002).
	ACCC	Schindler, Thomas, et al., "Structural Mechanism for STI-571 Inhibition of Abelson Tyrosine Kinase," <i>Science Magazine</i> (2000).
	ADDD	Schreiber, S., "Molecular Therapies in Crohn's Disease: Coming of Age," <i>Int. J. Colorectal Dis.</i> (2002).
	AEEE	Shi, Yu, et al., "In the Celluar Garden of Forking Paths: How p38 MAPKs Signal for Downstream Assistance," <i>Biol. Chem.</i> , Vol. 383: 1519-1536 (2002).
	AFFF	Stephenson, Keith, et al., "Virulence- and Antibiotic Resistance-Associated Two-Component Signal Transduction Systems of Gram-Positive Pathogenic Bacteria as Targets for Antimicrobial Therapy," <i>Pharmacology & Therapeutics</i> (2002).
	AGGG	Tanoue, Takuji, et al., "Docking Interactions in the Mitogen-Activated Protein Kinase Cascades," <i>Pharmacology & Therapeutics</i> (2002).
	AHHH	Taylor, Susan S., et al., "Protein Kinase Inhibition: Natural and Synthetic Variations on a Theme," <i>Current Opinion in Chemical Biology</i> (1997).

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	AIII	Till, Jeffrey A., et al., "Crystallographic and Solution Studies of an Activation Loop Mutant of the Insulin Receptor Tyrosine Kinase," <i>The Journal of Biological Chemistry</i> (2001).
	AJJJ	Traxler, Peter, et al., "Strategies Toward the Design of Novel and Selective Protein Tyrosine Kinase Inhibitors," <i>Pharmacology & Therapeutics</i> (1999).
	AKKK	Velentza, Anastasia V., et al., "Structure, Activity, Regulation, and Inhibitor Discovery for a Protein Kinase Associated with Apoptosis and Neuronal Death," <i>Pharmacology & Therapeutics</i> (2002).
	ALLL	Williams, David H., et al., "Latest Developments in Crystallography and Structure-Based Design of Protein Kinase Inhibitors as Drug Candidates," <i>Elsevier Science Ltd.</i> (2002).
	AMMM	Woolfrey, John R., et al. "The Use of Computational Methods in the Discovery and Design of Kinase Inhibitors," <i>Current Pharmaceutical Design</i> (2002).
	ANNN	Yeh, Ren-Hwa, et al., et al., "From Consensus Sequence to High-Affinity Ligands: Acquisition of Signaling Protein Modulators," <i>Pharmacology & Therapeutics</i> (2002).
	AOOO	Zhang, Chong-Yin, et al., "Modulation of Protein Kinase Signaling by Protein Phosphatases and Inhibitors," <i>Pharmacology & Therapeutics</i> (2002).
	APPP	
	AQQQ	

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